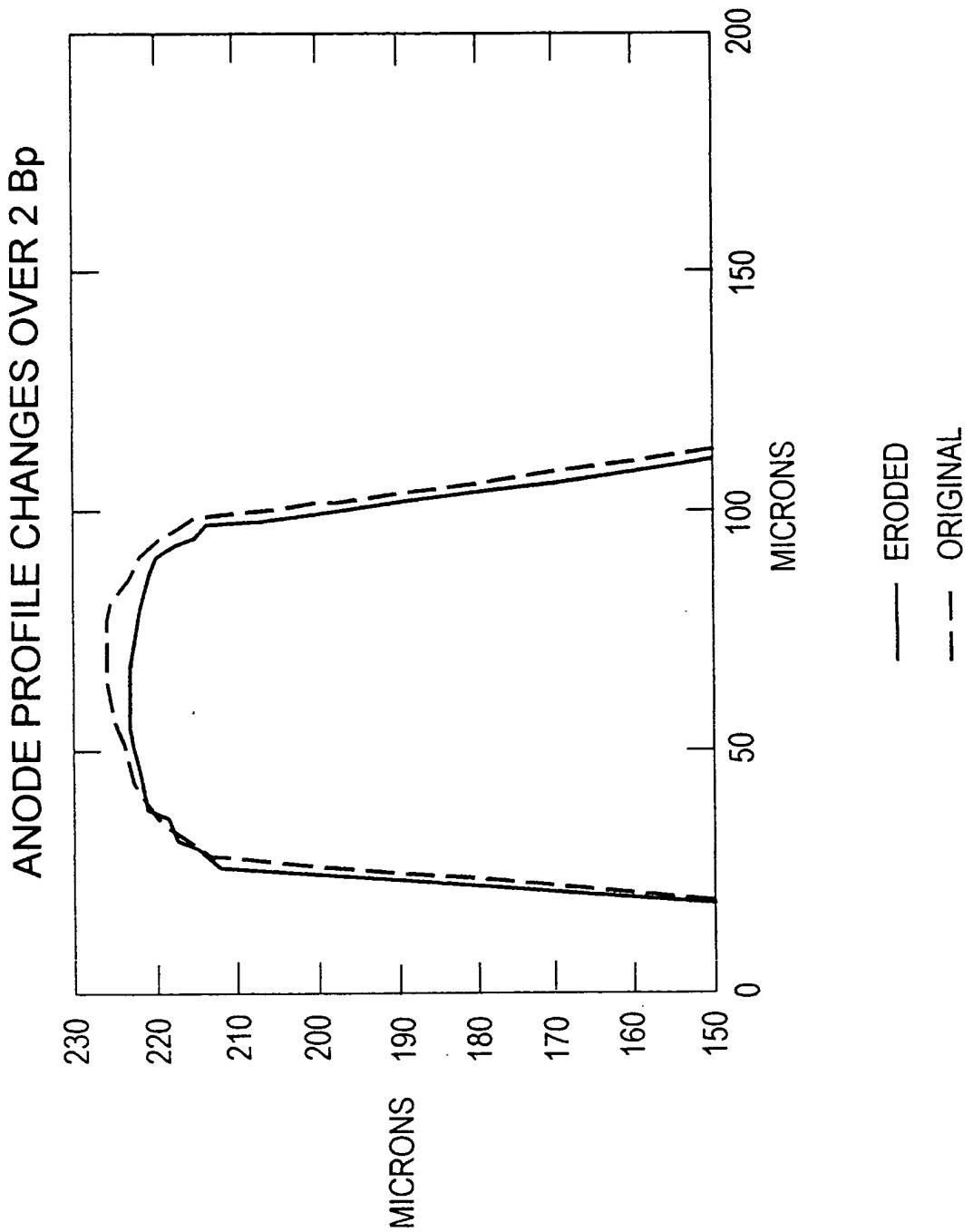


FIG. 1



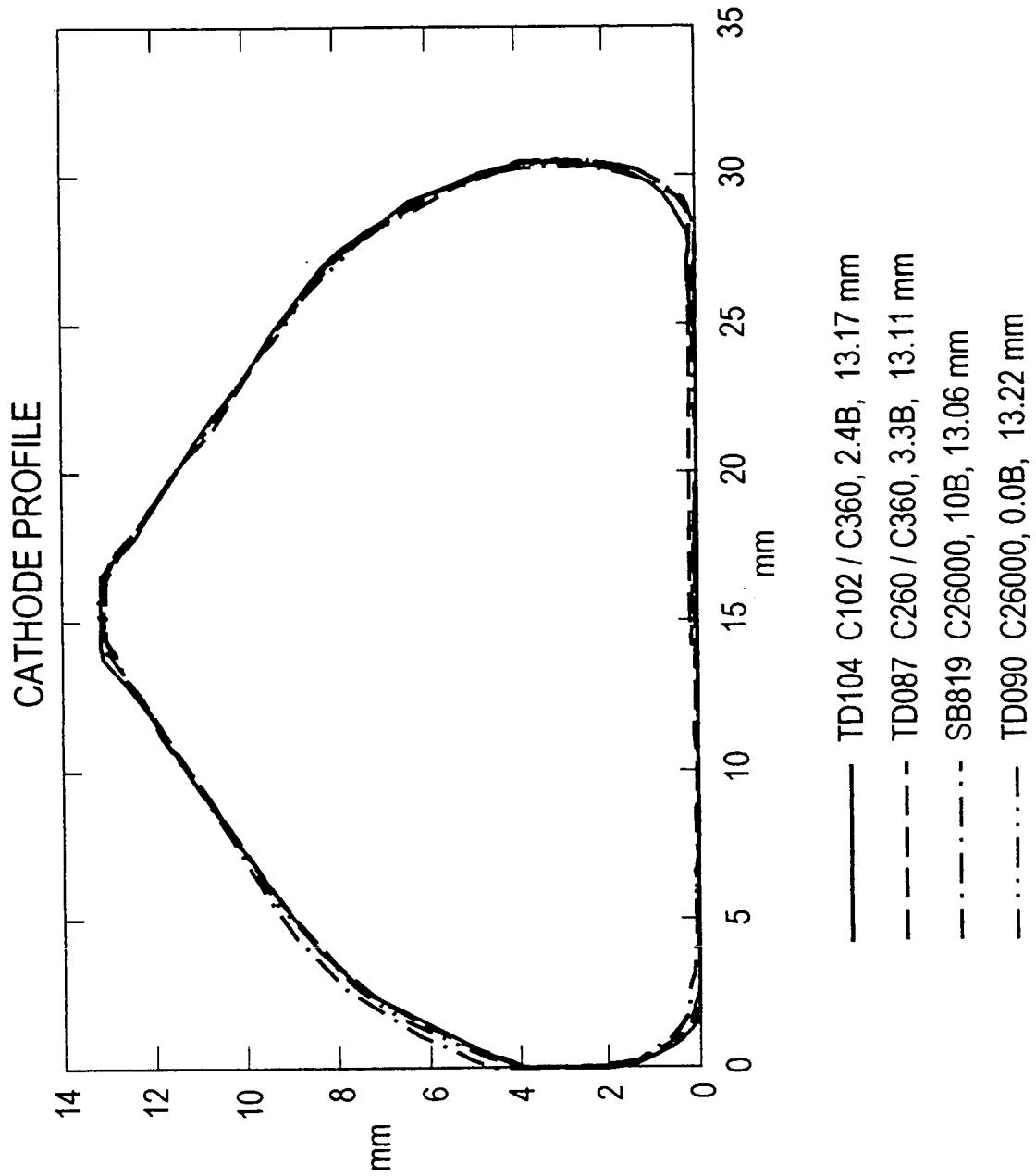
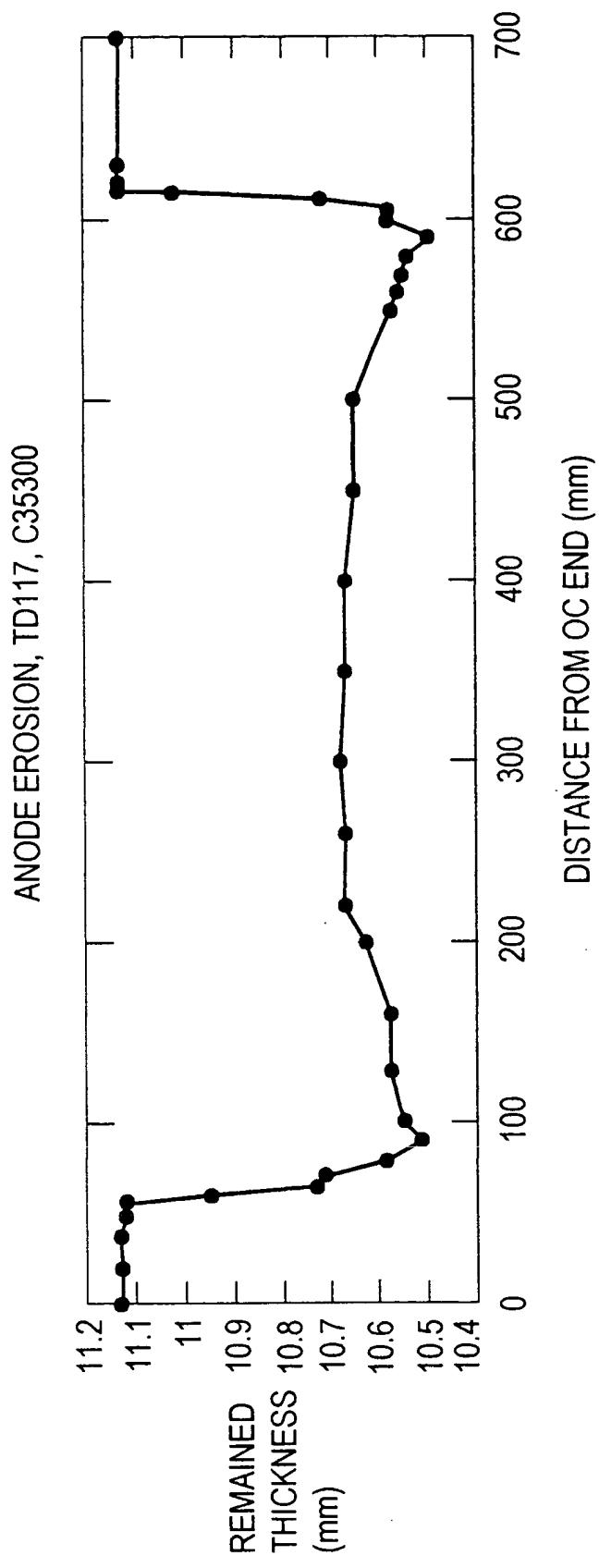


FIG. 2. Cathode Profile Changes



Typical Axial Anode Erosion Profile, 3 Bp in 4 kHz ArF

3
FIG.

FIG. 4

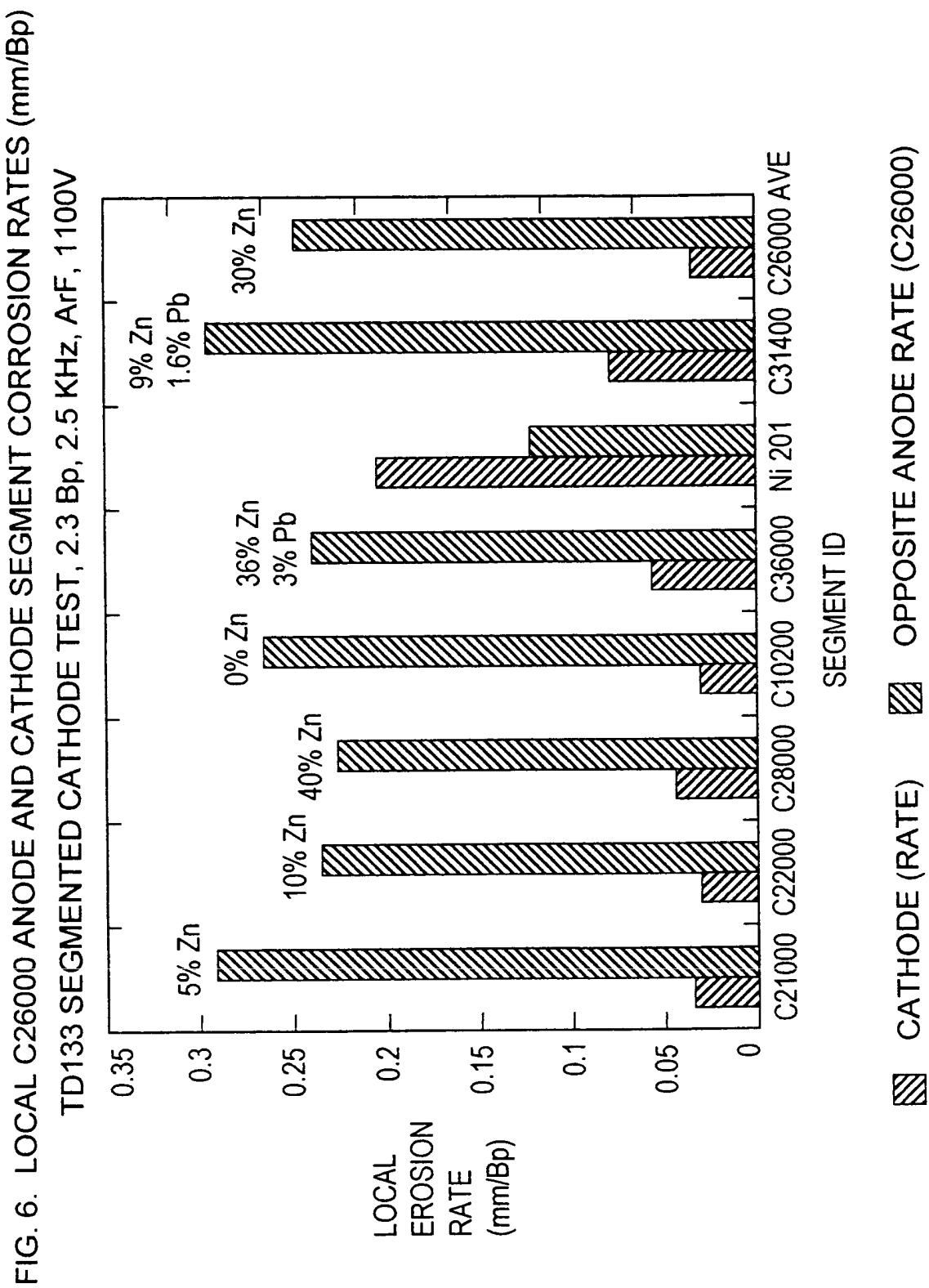


FIG. 5

Fig. 7. Cathode Discharge Width vs Material Type
(TD133, 2.5 KHz ArF, 1100 Volts, 2.3 Bp)

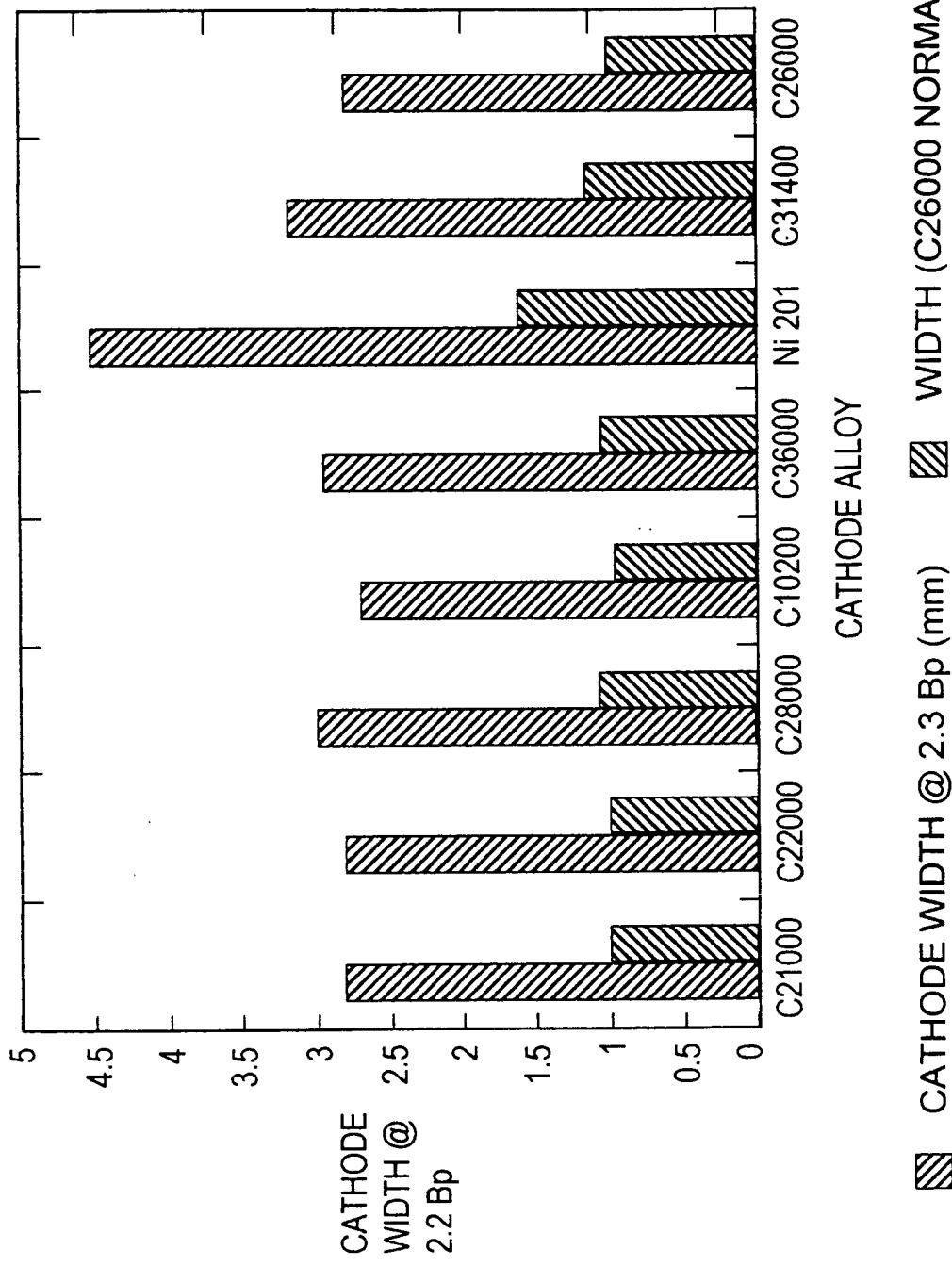


Fig. 8. Surface Roughness Vs. Alloy Type C26000
Measured by "Pocket Surf", TD133 6410A, 2.5 KHz ArF, 2.3 Bp

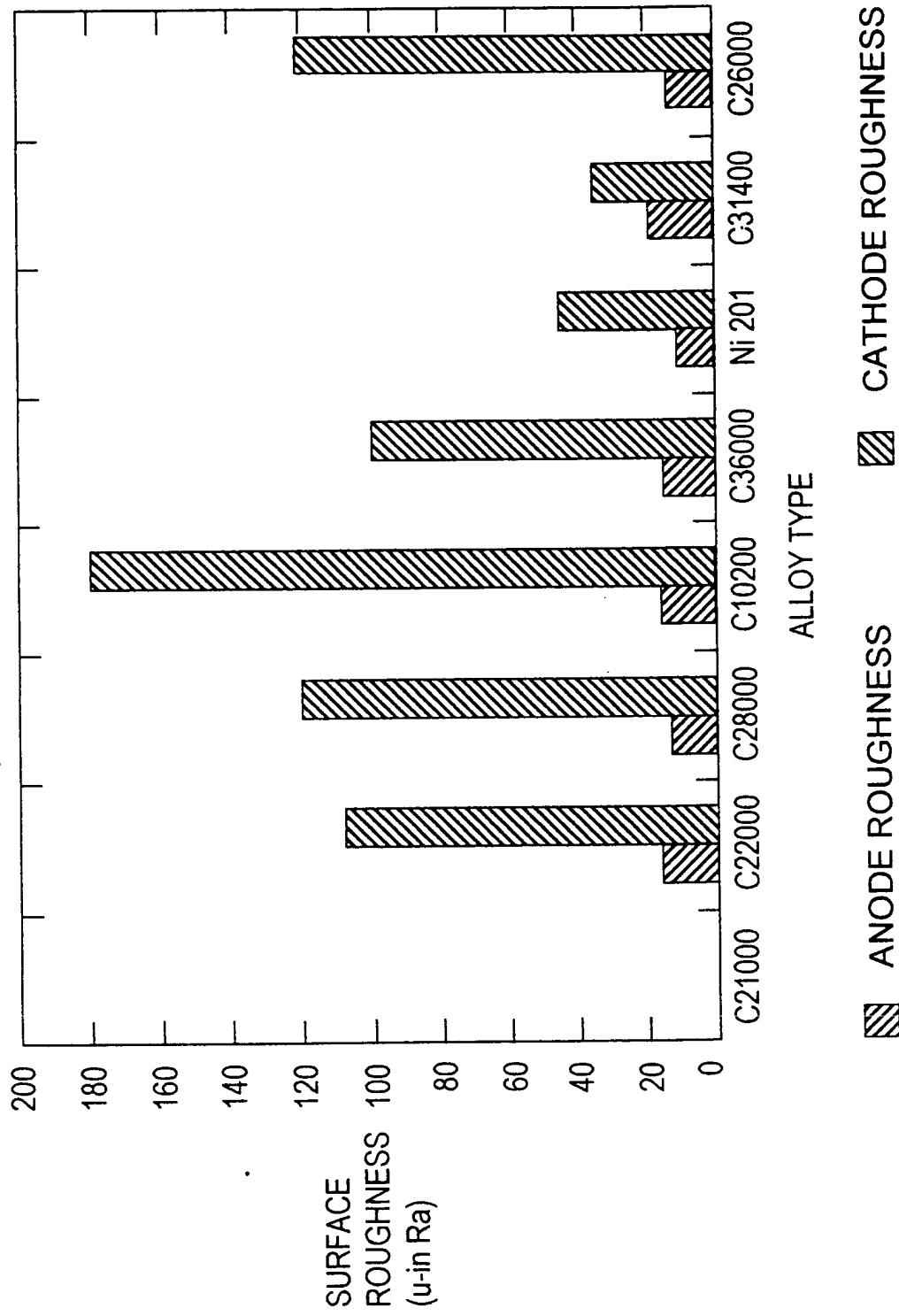


FIG. 6

FIG. 7

Fig. 10. Average Cathode Erosion Rates (2KHz, >2Bp)

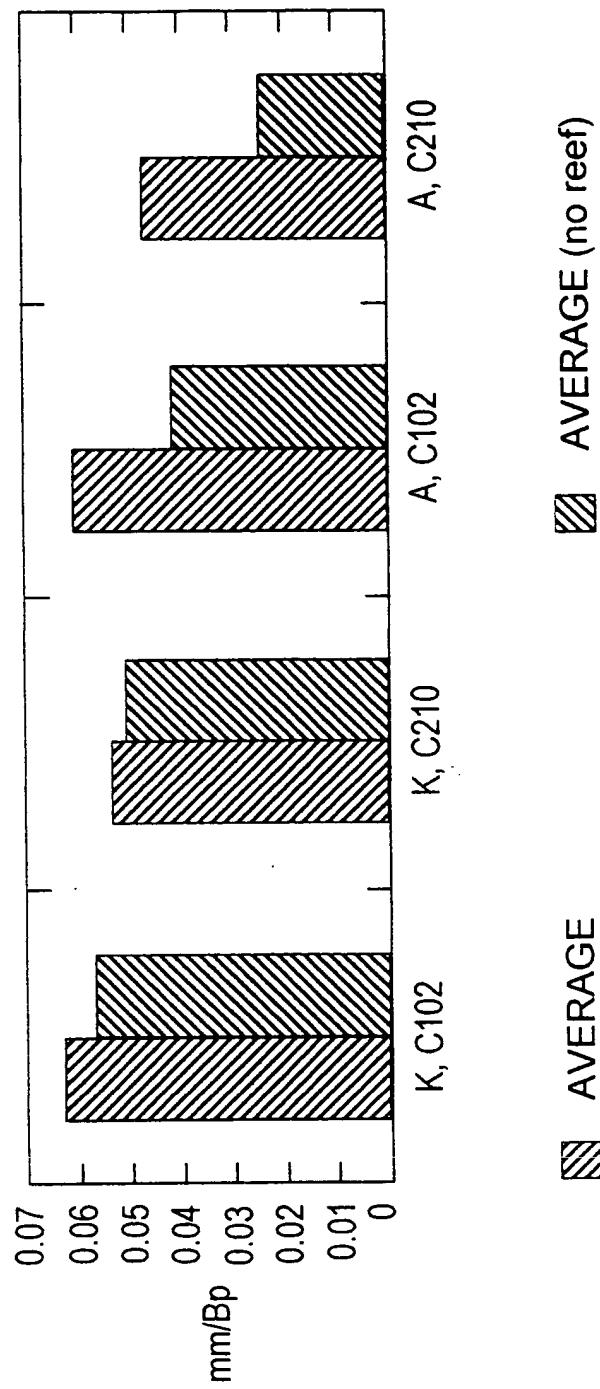


FIG. 8

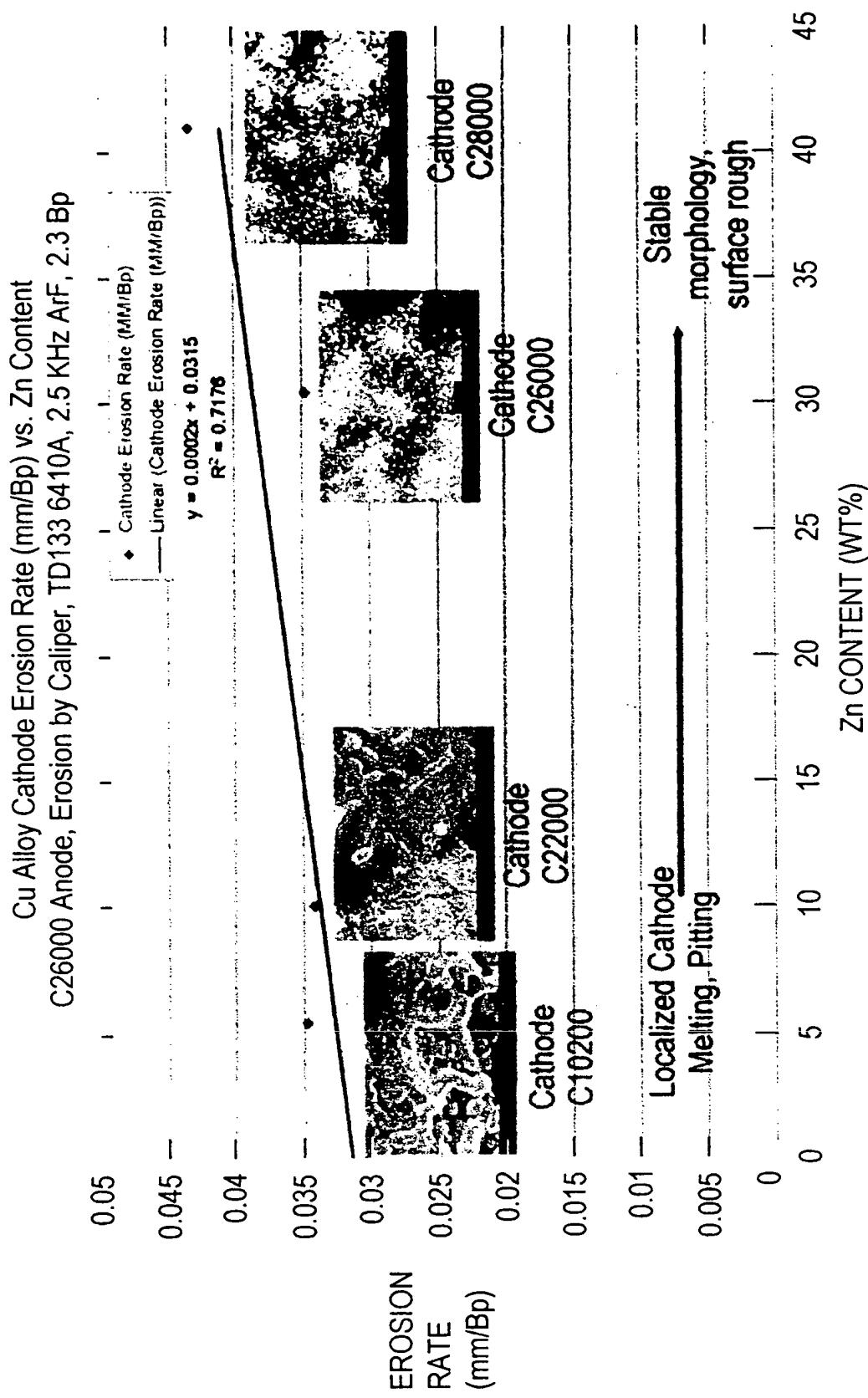


Fig. 8. Surface Roughness Vs. Alloy Type C26000
Measured by "Pocket Surf", TD133 6410A, 2.5 KHz ArF, 2.3 Bp

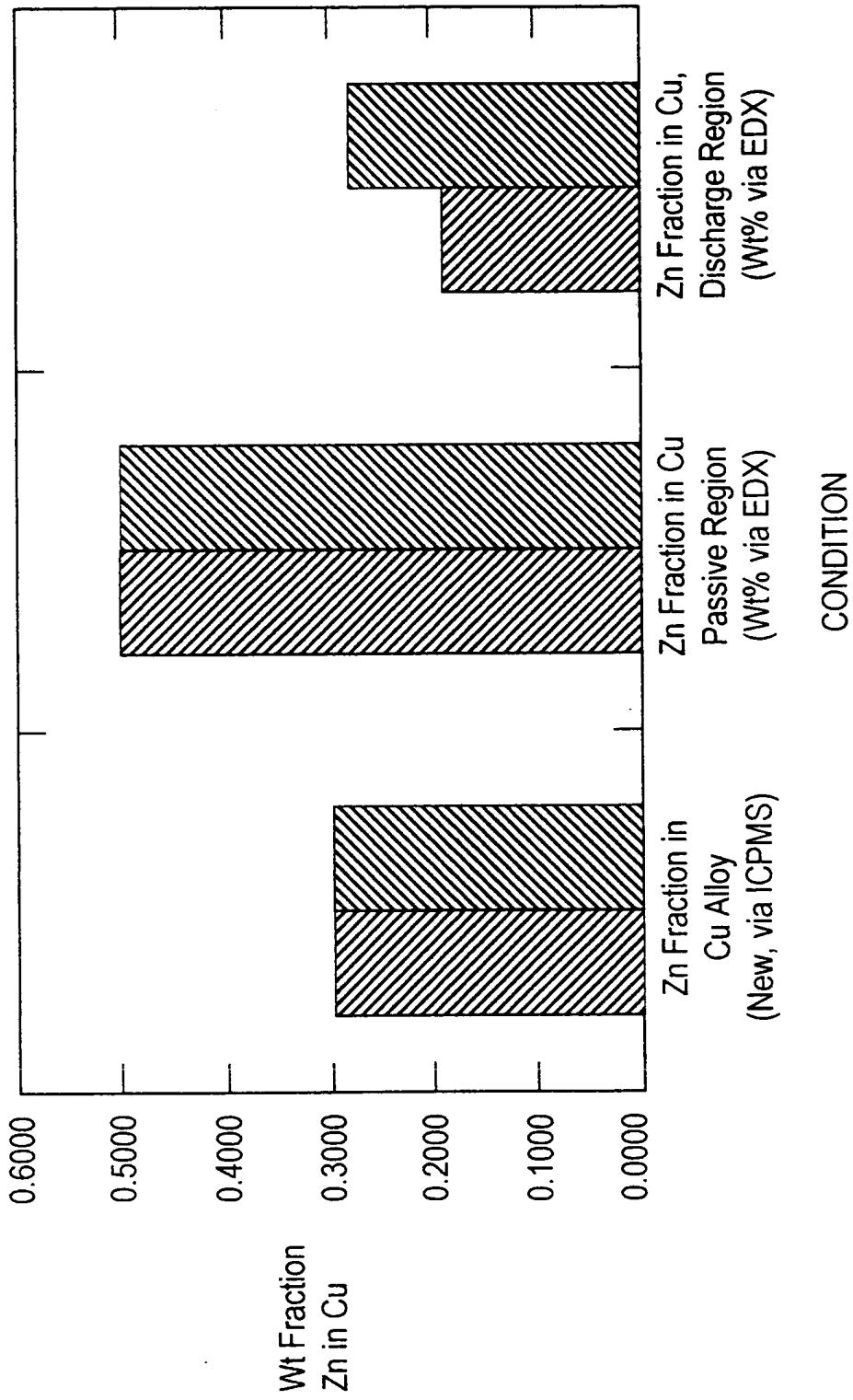


FIG. 9

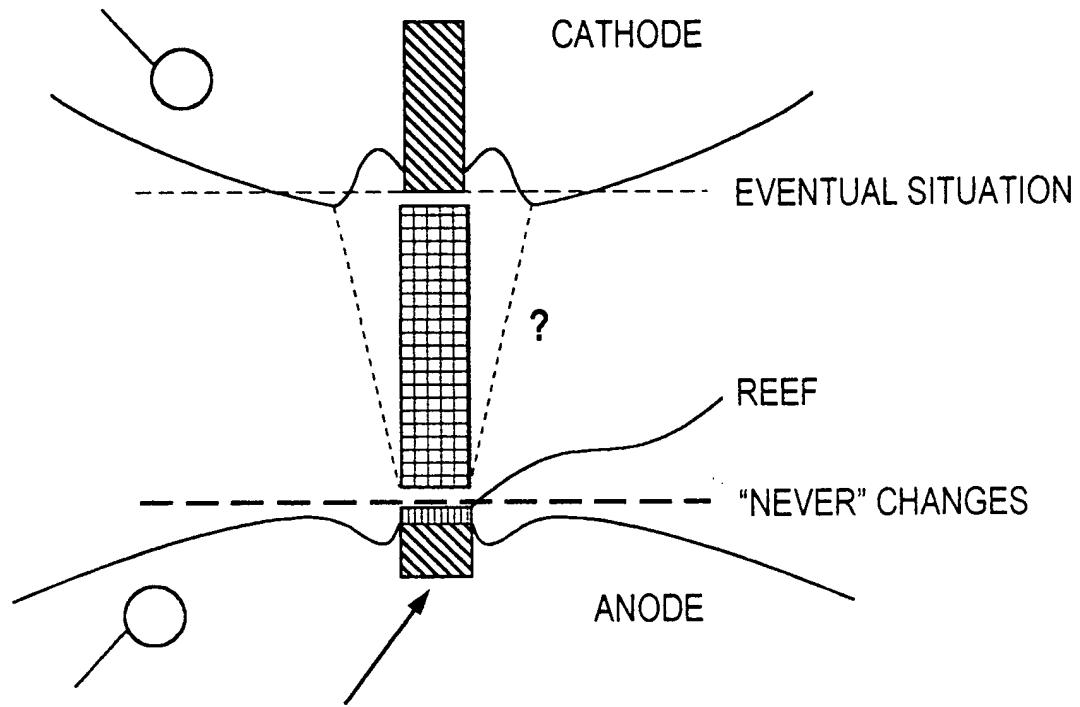


FIG. 10

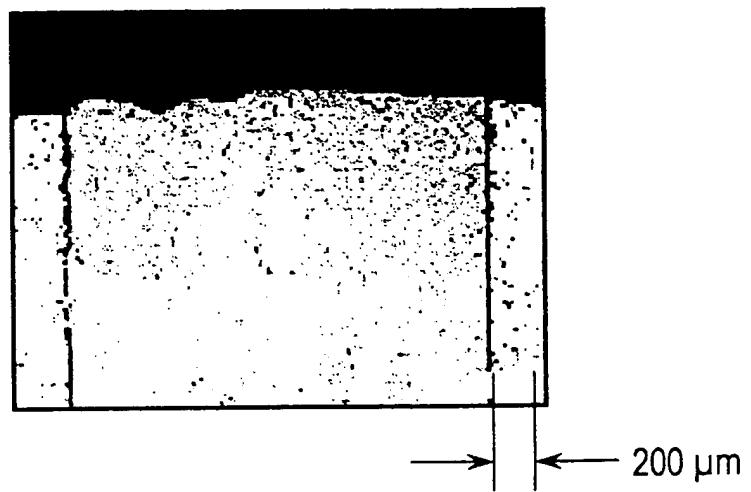


FIG. 11

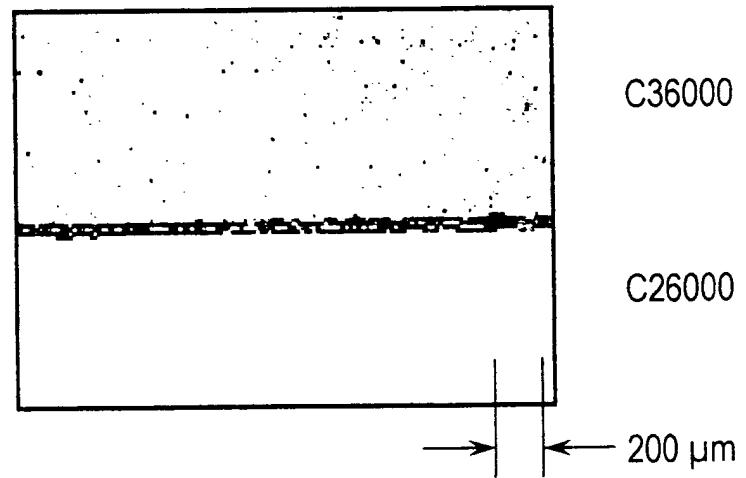


FIG. 12

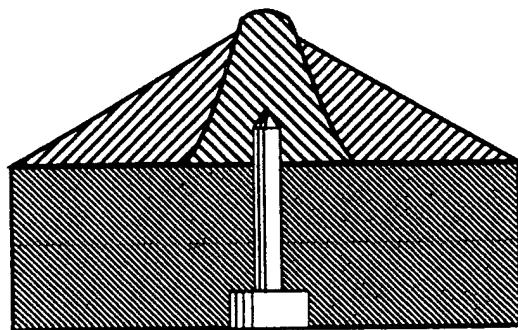
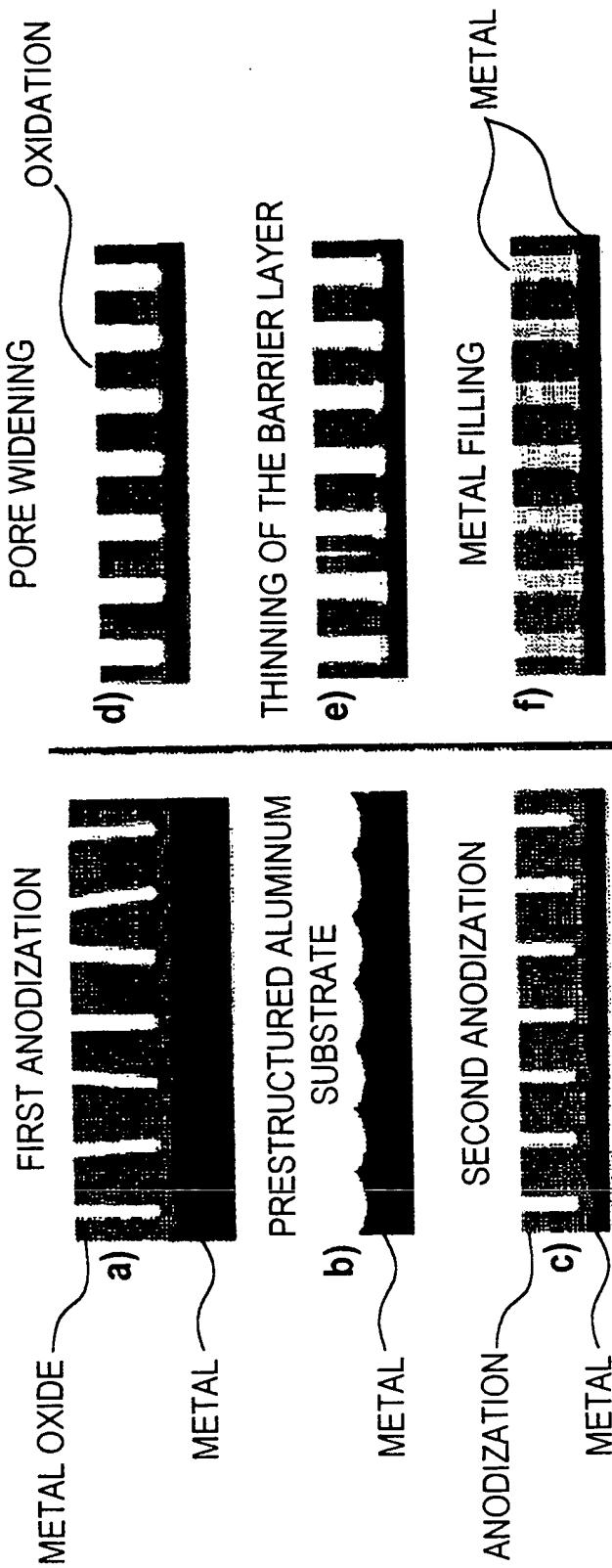


FIG. 13

FIG. 14



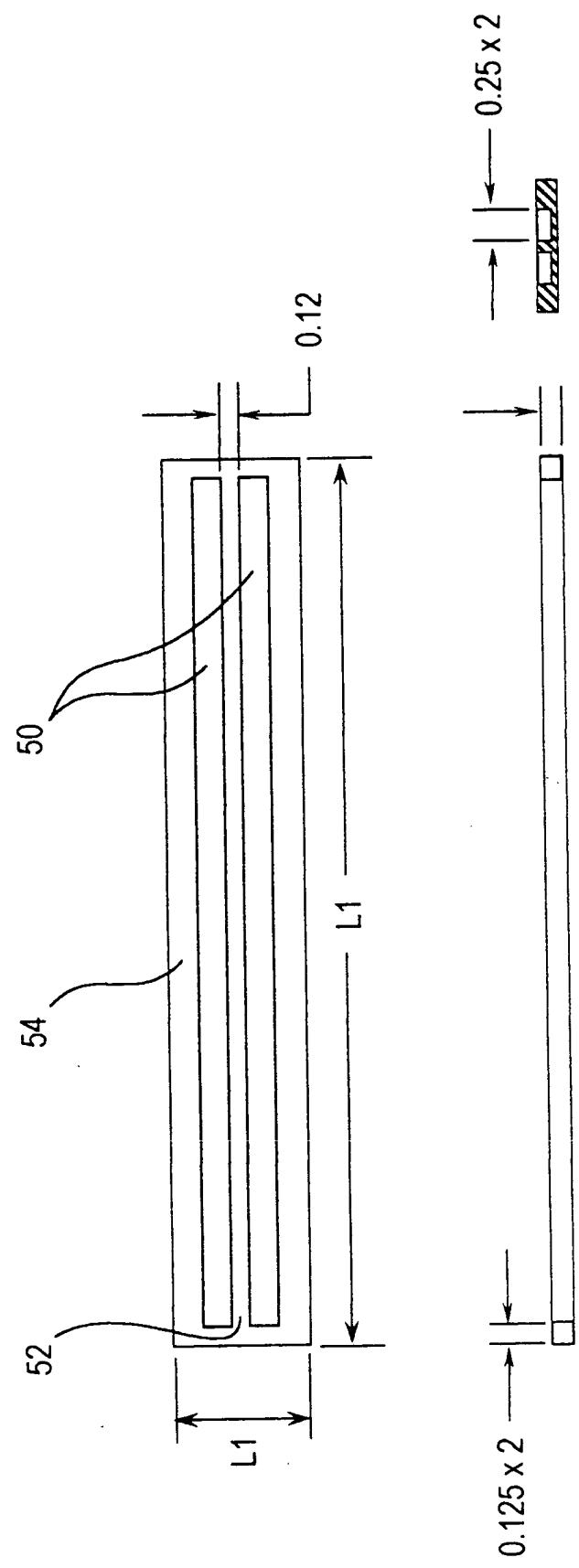


FIG. 15

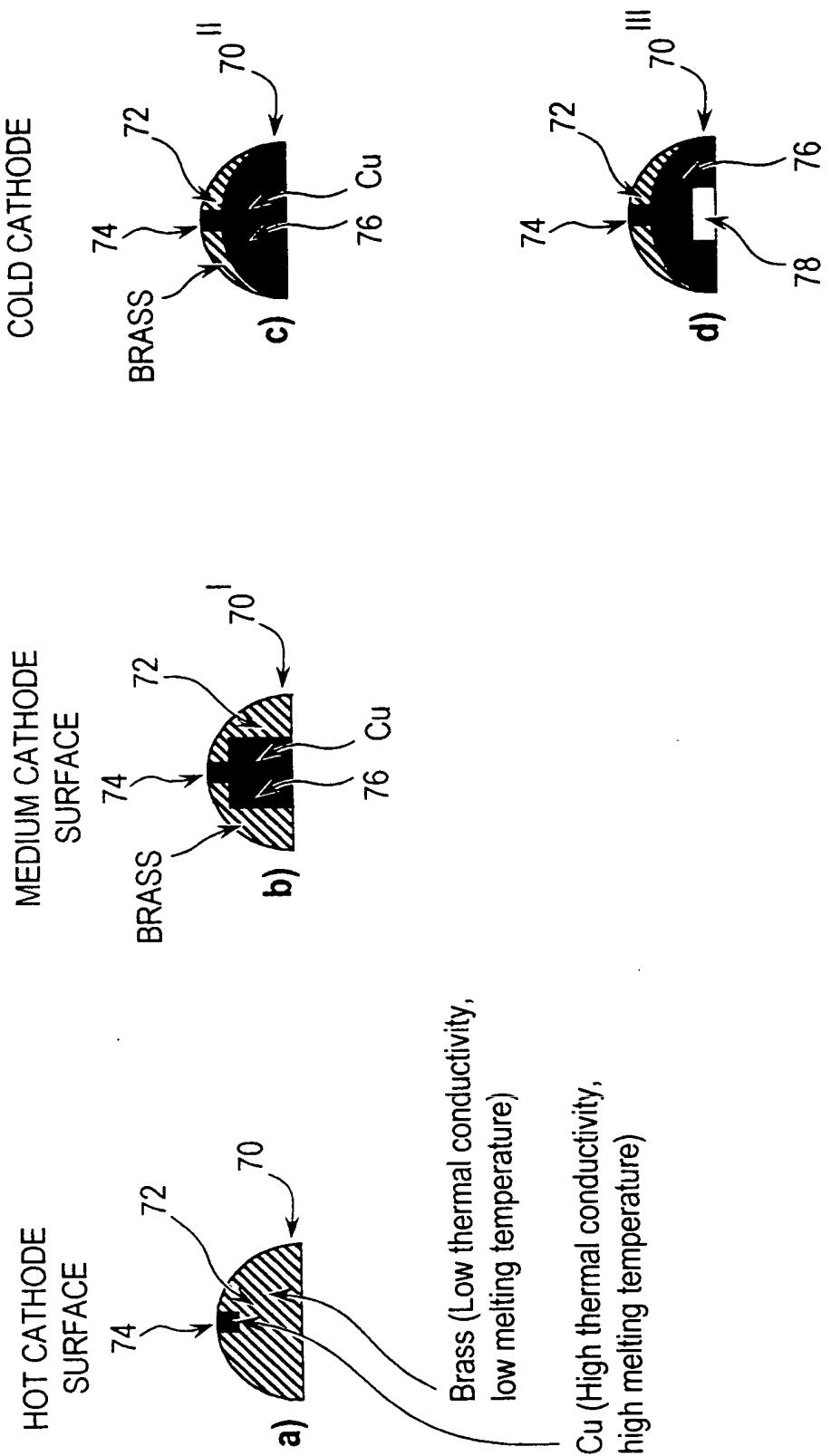
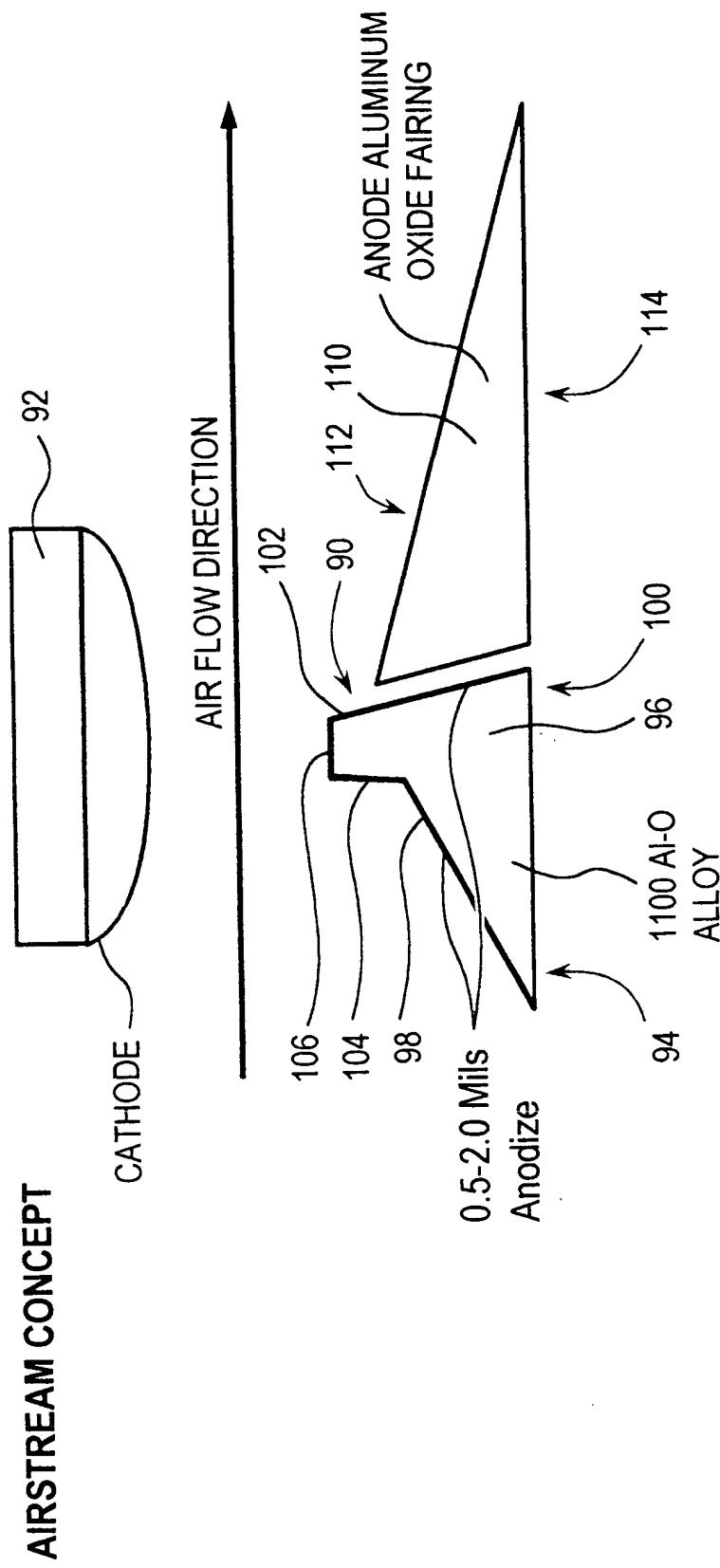


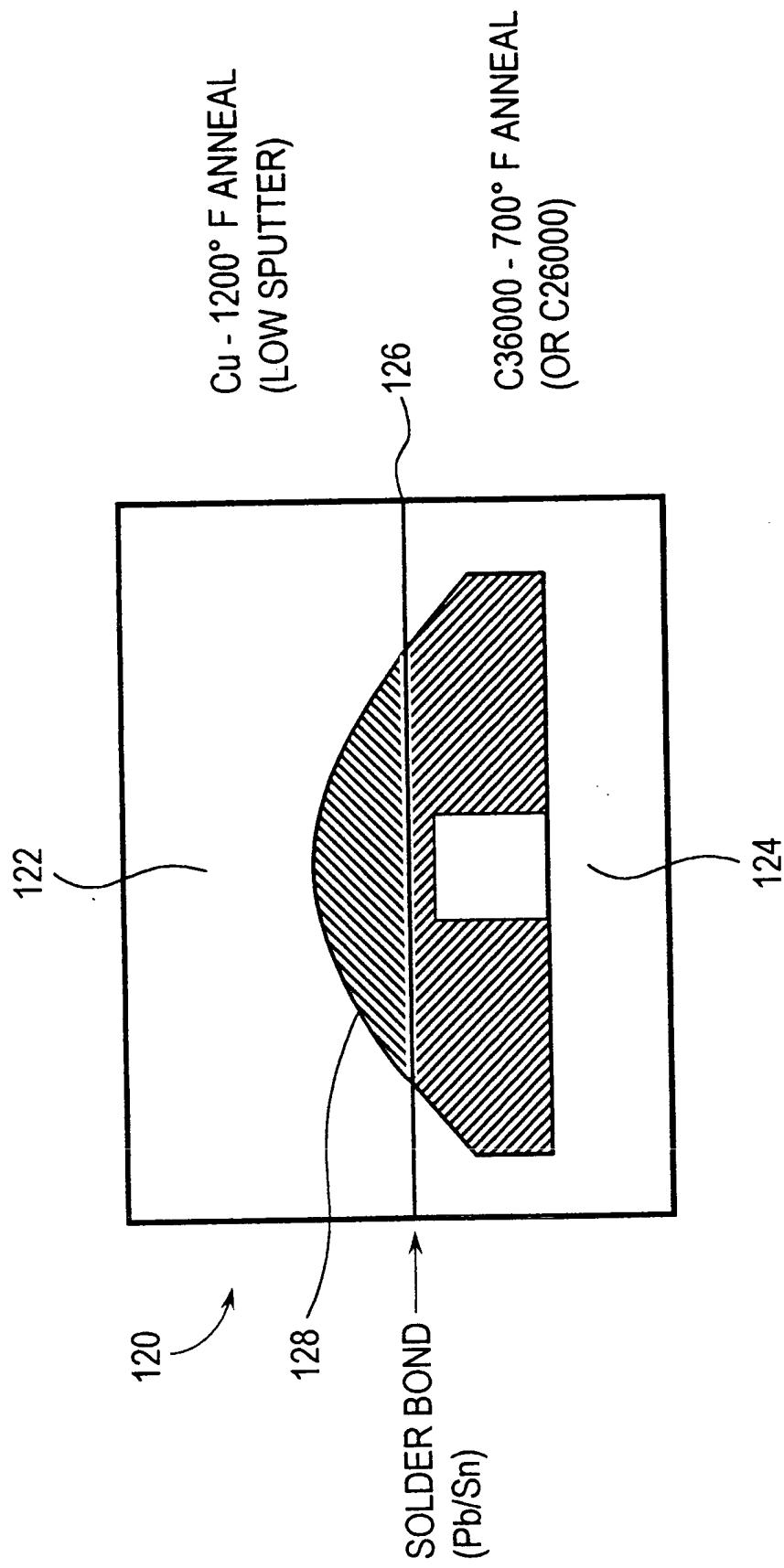
FIGURE 1. Cathode or Anode Surface Temperature Control Using Diffusion Bonding Technology.

FIG. 16

FIG. 17



Spatter rate of annealed Cu about $\frac{1}{2}$ that of brass.



Good machining and mechanical properties for mounting and gas sealing.
(Low erosion rate cathode not relying on differential erosion.)

FIG. 18

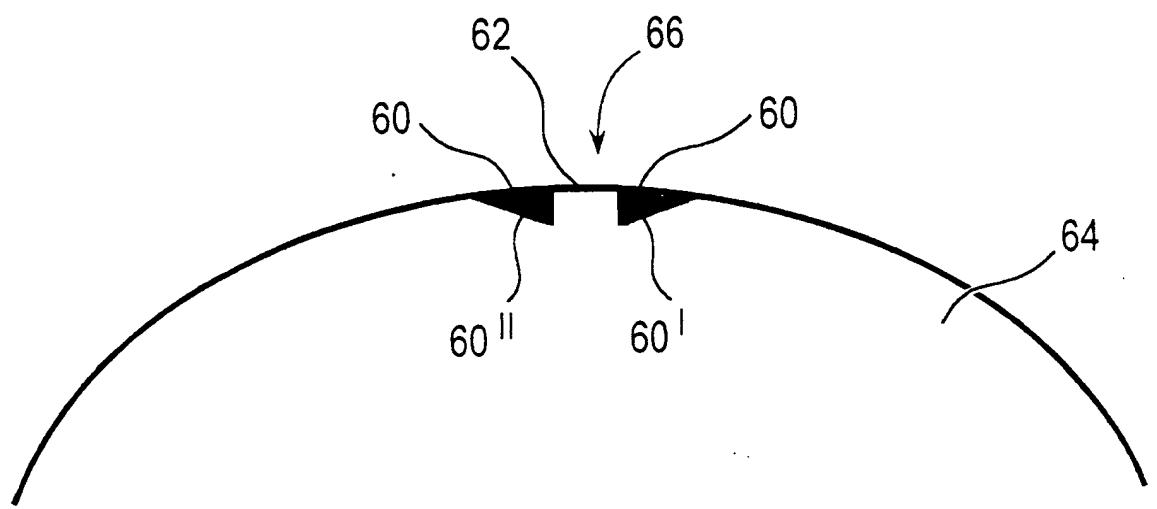


FIG. 19

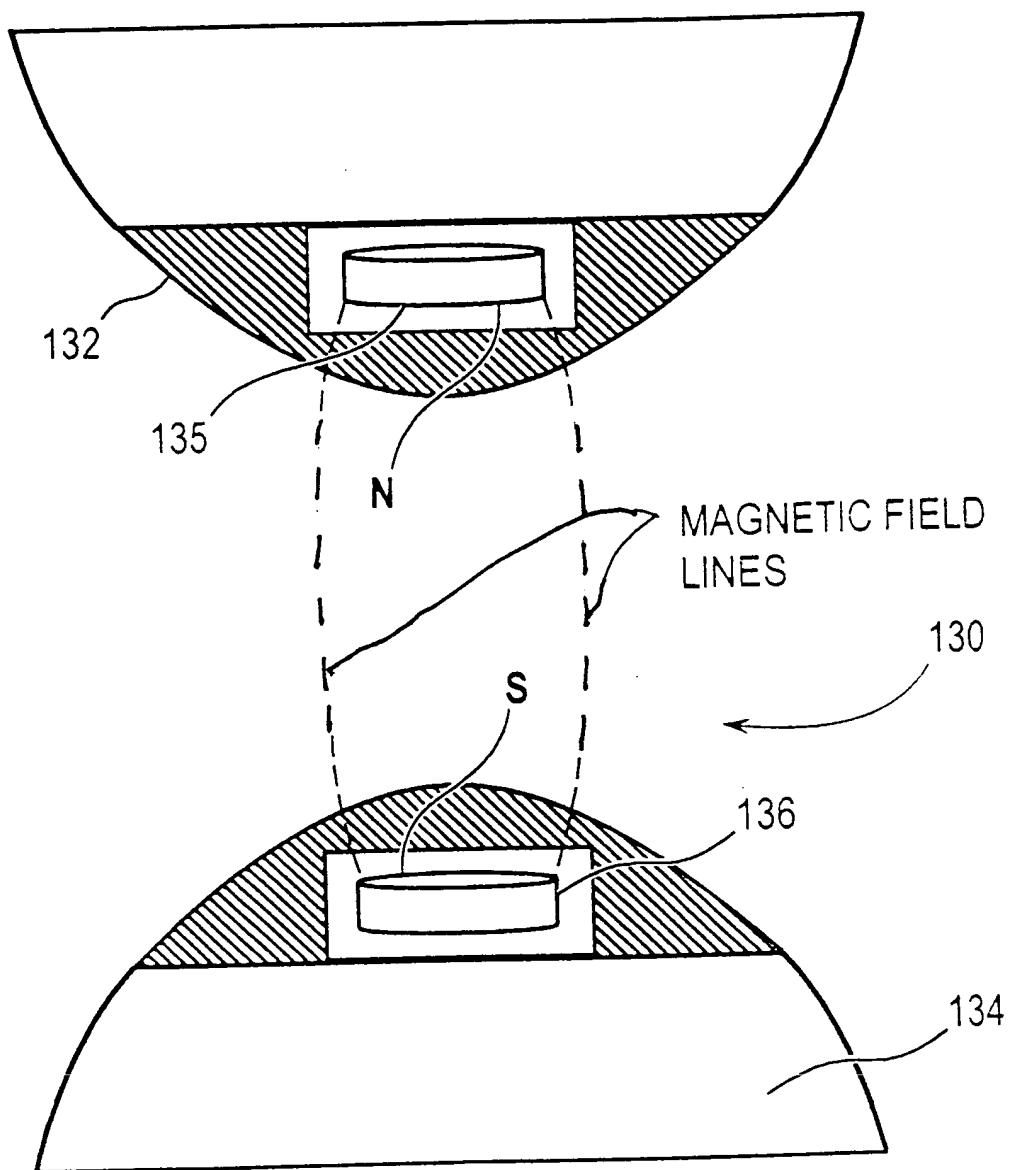


FIG. 20a

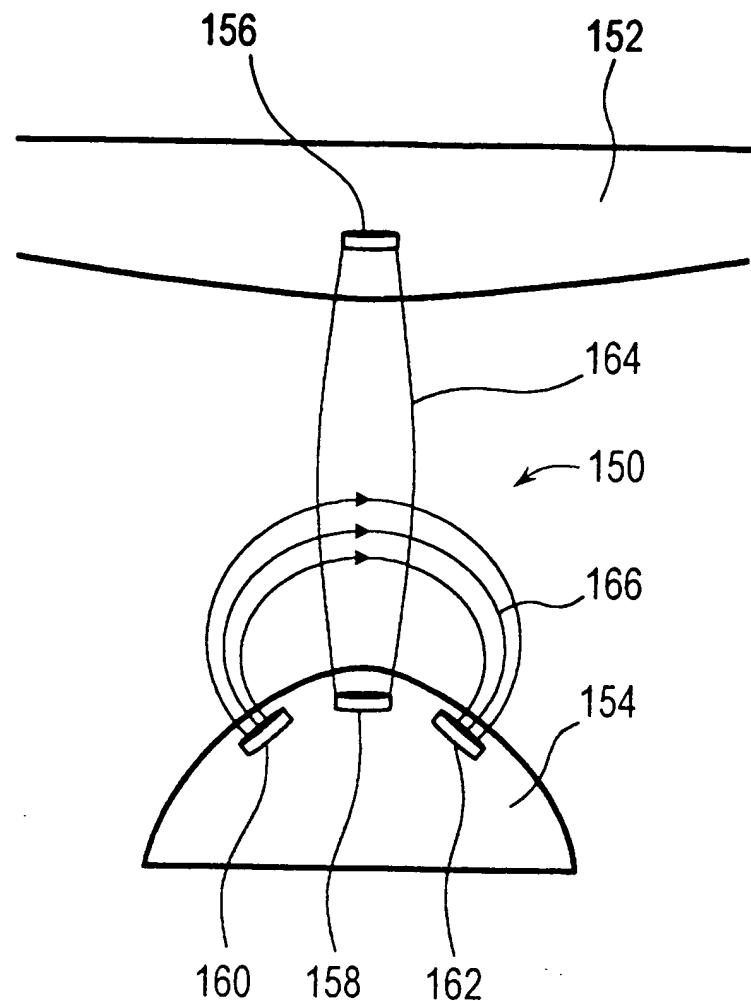


FIG. 20b

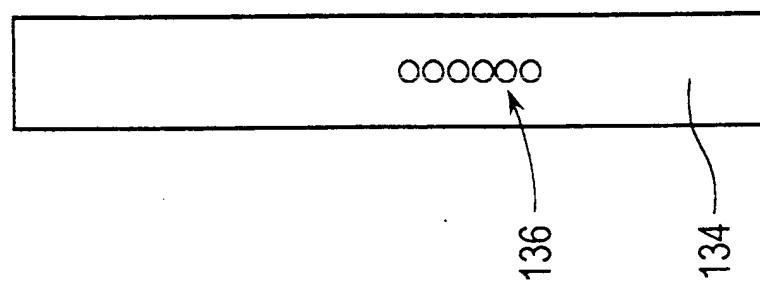


FIG. 20c

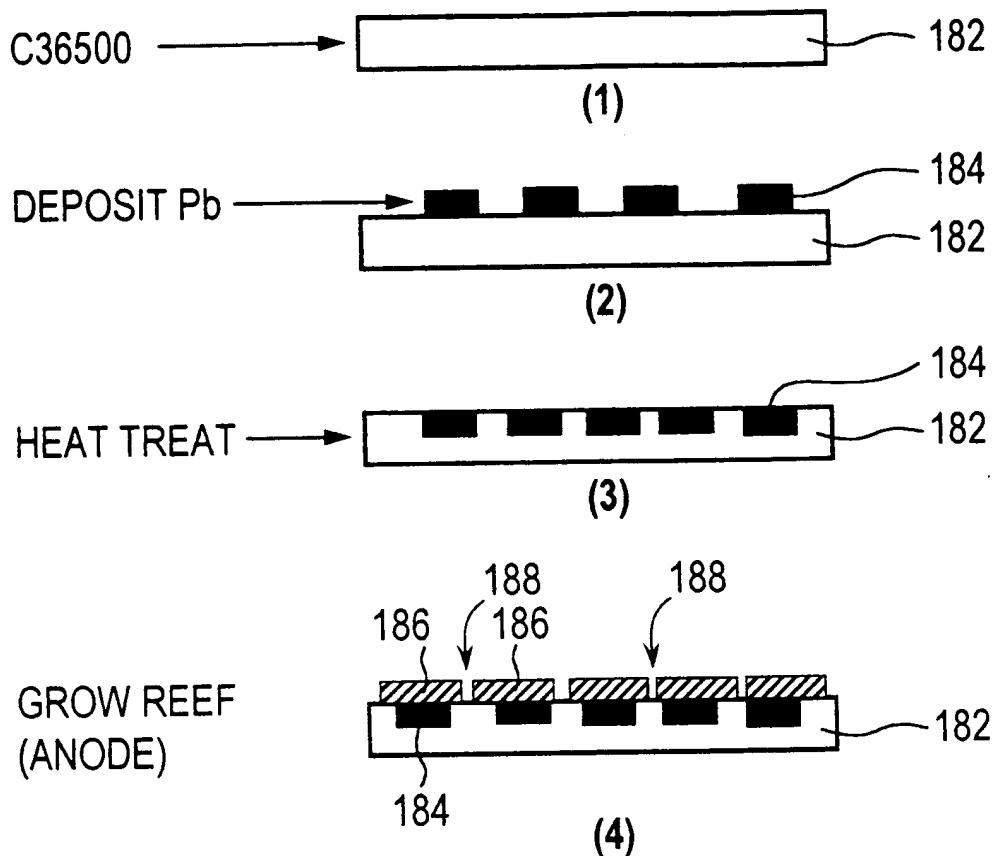


FIG. 21a

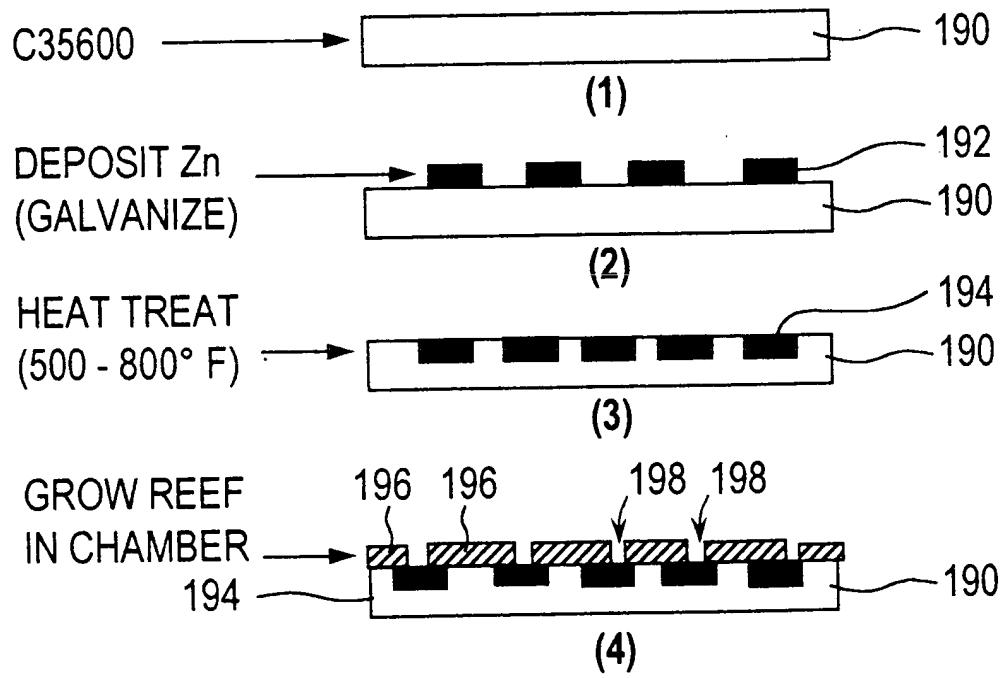


FIG. 21b

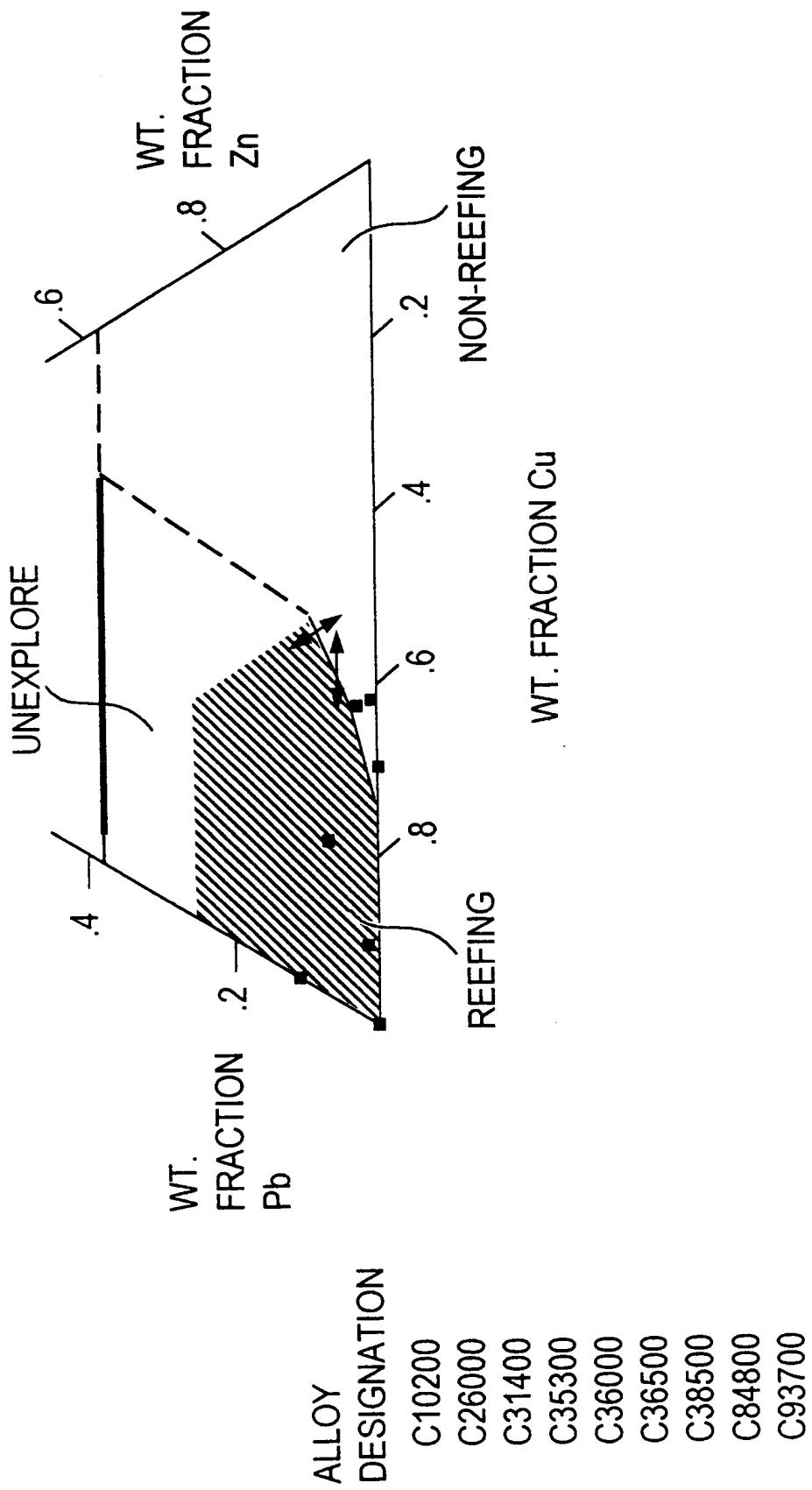


FIG. 22

FIG. 23a

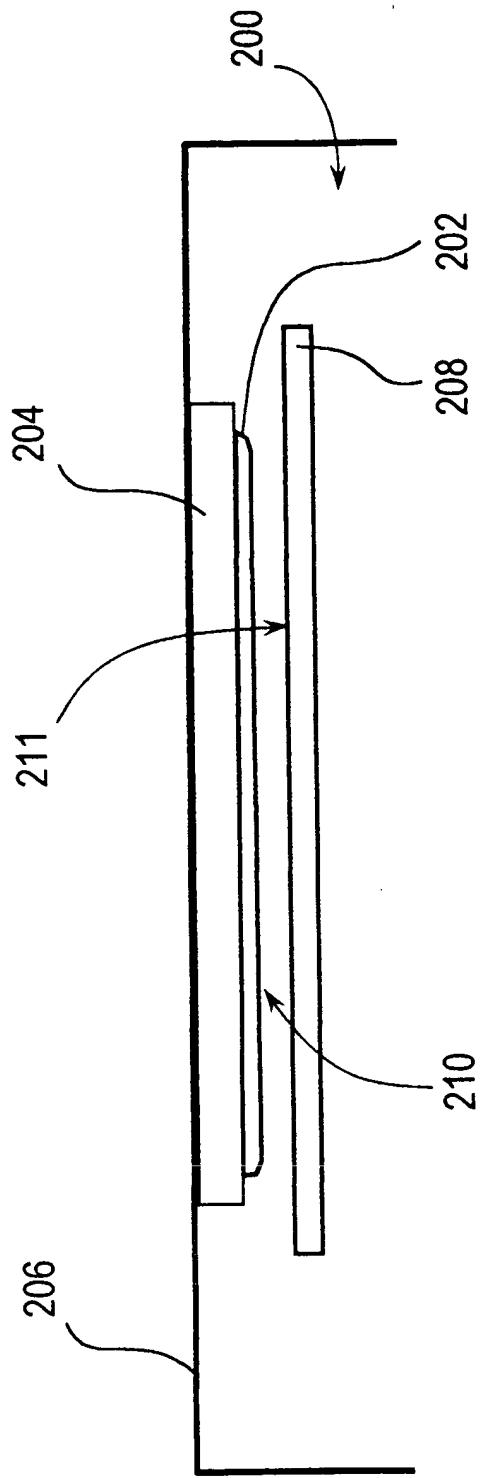


FIG. 23b

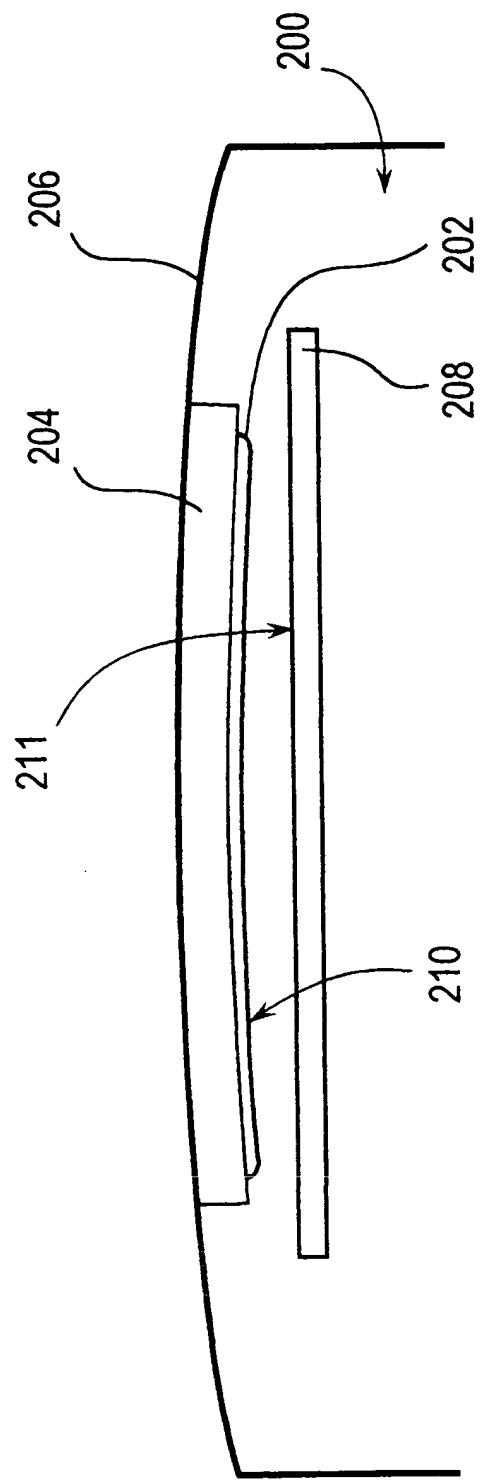
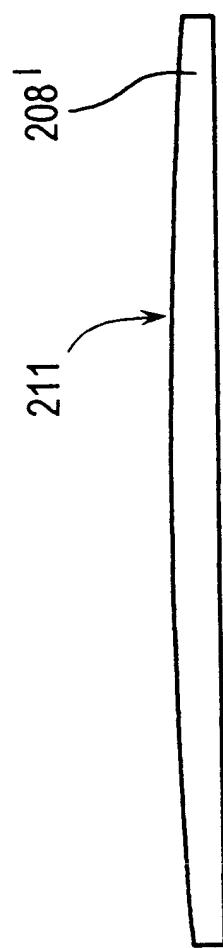


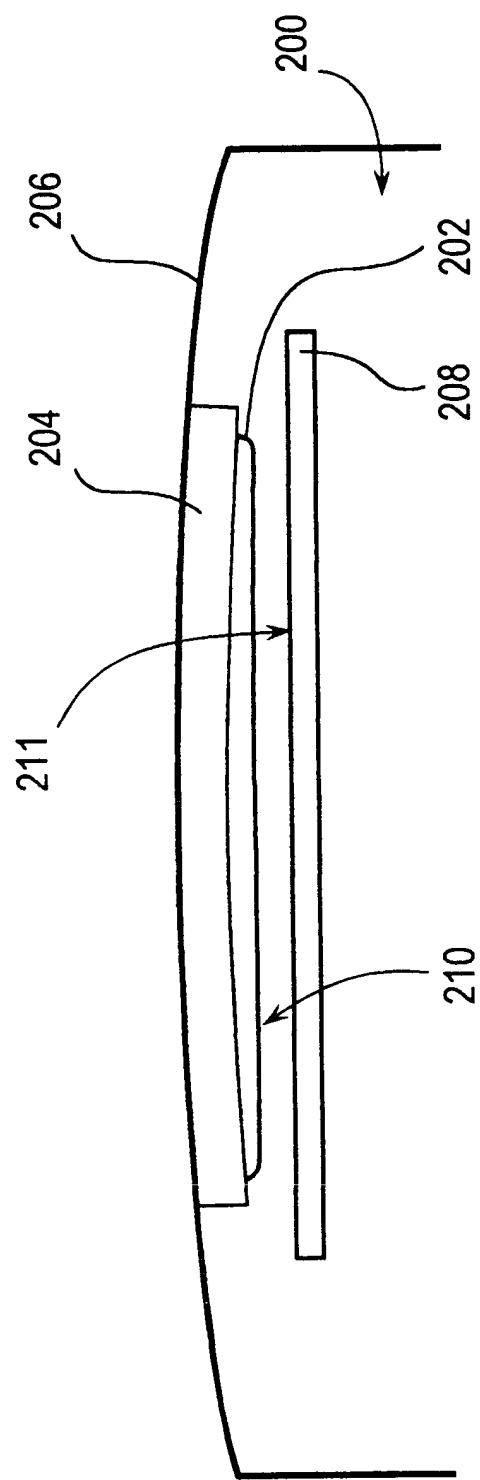
FIG. 23c

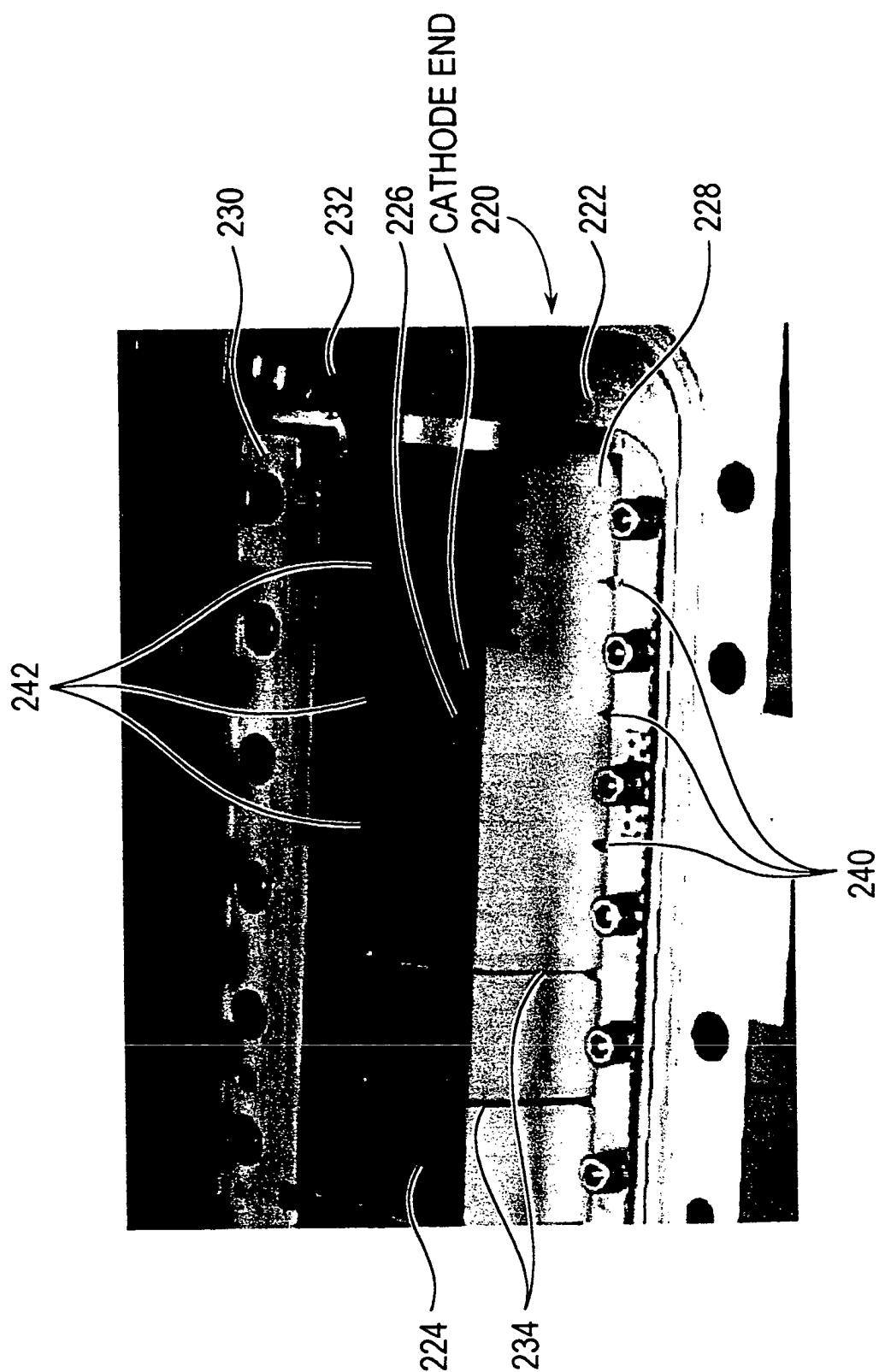


208^l

211

FIG. 23d





Current return tangs removed to increase
inductance at end of discharge region.

FIG. 24

FIG. 25a

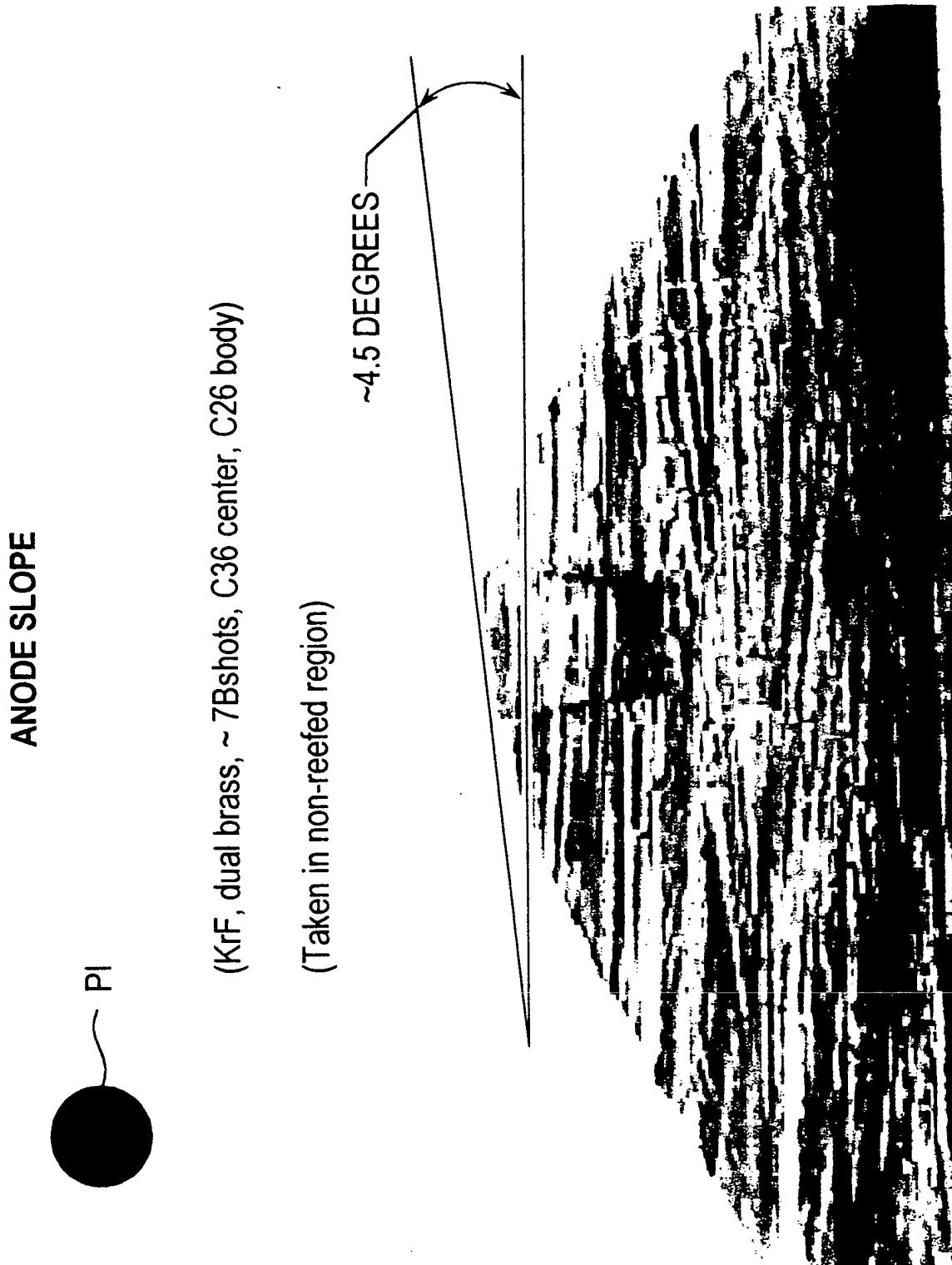


FIG. 25b

